

(TPO) WATERPROOFING MEMBRANE

Thermoplastic polyolefin (TPO) waterproofing membrane is a new type of waterproof coil produced by a single extrusion process without any plasticizers, using polyolefin polymer synthetic resin and EPDM as the base material, with antioxidant test, anti-aging agent, UV absorbent and other fillers. It has both fiexibility and weldability. Polyester fiber mesh cloth can be added as reinforcement material, made of enhanced waterproof material.

PRODUCT STRUCTURE



Polymer resin sheet Internally

Reinforced fabrics

Polymer resin sheet

PRODUCT SPECIFICATION

Thickness	Width/ft.	Length/ft.
.45	5,6,10	≥50
.60	5,6,10	≥50
.80	5,6,10	≥50

PRODUCT FEATURES

Raw materials

Made of high quality polypropylene and rubber co polymerization, there are no plasticizers and other harmful substances in McGuires Flexguard TPO



McGuire Flexguard TPO has excellent age resistance. It also maintains flexibility in-40c temperatures and does not become hard and brittle.

Excellent Quality

The shrink rate of McGuire FlexGuard TPO is very low, the material is strong, highly impact resistant, puncture resistance and holds a long service life.

Convenient Construction

Roofing Assembly is made simple with McGuire FlexGuard TPO, This product is easy to weld and efficient providing a strong seam connection. Seam peel strength is high, creating a sealed waterproof layer

Product Type

Smooth (Category H), Fiber fleece- backed (Category L), Reinforced with polyester scrim (Category P)

Application Scope

New and repaired single sheet metal roofing. Newly built and repaired single layer concrete roofing.









IMPLEMENTATION STANDARDS

ITEM		VALUE			
		н	L	Р	
Thickness of resin attaching to cmbedded scrim / mm ≥				0.4	
Tensile Property	Max tensile force / (N/cm) ≥	_	200	250	
	Tensile strength / MPa ≥	12.0	_	-	
	Elongation at break / % ≥	500	250	_	
Dimensional Variation after heating / 100% ≥		20	1.0	0.5	
Low temperature flexibility		-40°C no crack			
Impermeability		0.3MPa 2h impermeable			
Compression resistance		0.5kg. m no pernetration			
Tear strength of overlapping / (N/cm) ≥		4.0	4.0 3.0		
Water absorption (70°C 168h)/%≥		4.0			
Heat aging (80°C)	Time duration	672h			
	Appearance	No bubble, crack, delamination, or pinhole			
	Retention rate of max tensile force / % ≥	_	90	90	
	Retention rate of tensile strength / % ≥	90	_	_	
	Retention rate of elongation at break/ % ≥	90	90	-	
	Low temperature flexibility	-40°C no crack			
Chemical resistance	Appearance	No bubble, crack, delamination, or pinhole			
	Retention rate of max tensile force / % ≥	_	90	90	
	Retention rate of tensile strength / % ≥	90		_	
	Retention rate of elongation at break/ % ≥	90	90	_	
	Low temperature flexibility	-40°C no			
Artificial Weathering	Time duration	crack 1500h			
	Appearance	No bubble, crack, delamination, or pinhole			
	Retention rate of max tensile force / % ≥	_	90	90	
	Retention rate of tensile strength / % ≥	90	-	-	
	Retention rate of elongation at break/ % ≥	90	90		
	Low temperature flexibility	-40°C no crack			





